BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at Doddabommasandra old village, Katteramma Temple Roads and Surrounding areas in Ward No. 13, (Doddabommasandra).

Estimated Cost : Rs. 25.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 013-23-000007

Name of Agency: Sri. D.A Ravindra, No. 1265, HIG Mother Dairy Road, near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064.

Work order No: BMP/EE/BTP/WO/140/2022-23 D: 03-03-2023.

	Measurements Recarded on :	29-03-2023							
Sl No	Description of work	Mesurement						Qty.	Unit
		No.	L			B	D		
1	Removing and resetting of footpath slab (Approved arrival rate)								
	Drain Covering Slab								
	Krishna Temple Road E/S	1	10.00				0.90	9.00	
		1	8.00				0.90	7.20	
		1	6.50				0.90	5.85	
		1	7.80				0.90	7.02	
		1	9.50				0.90	8.55	
		1	12.20				0.90	10.98	
		1	16.80				0.90	15.12	
		1	10.60				0.90	9.54	
		1	10.90				0.90	9.81	
	Krishna Temple Road W/S								
		1	10.50				0.90	9.45	
		1	12.50				0.90	11.25	
		1	10.90				0.90	9.81	
		1	13.10				0.90	11.79	
		1	12.70				0.90	11.43	
		1	10.90				0.90	9.81	
		1	9.80				0.90	8.82	
		1	8.50				0.90	7.65	
			Total Qty =					163.08	
			Total Qty Ltd to App Qty =					162.00	Sqm

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Sl No	Description of work	Mesurement No.	L			B	D	Qty.	Unit
	Measurements Recarded on :	10-04-2023							
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.								
	New Culvert								
	Munibyrappa Layout Main Road	1	3.60			2.00	1.20	8.64	
	Renukamaba Temple Road 1st Cross	1	4.20			2.00	1.20	10.08	
	Renukamaba Temple Road 2nd Cross	1	4.40			2.00	1.20	10.56	
	Renukamaba Temple Road 3rd Cross	1	5.05			2.00	1.20	12.12	
	Chamundeshwari Temple Backside	1	4.80			2.00	1.20	11.52	
	Aproova Apartment Road Backside	1	4.80			1.50	1.20	8.64	
		1	6.00			1.50	1.20	10.80	
	Desilting of Drains								
	Krishna Temple Road E/S	1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.20			0.45	0.45	3.08	
	Krishna Temple Road W/S								
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.00			0.45	0.45	3.04	
		1	15.20			0.45	0.45	3.08	
			Total Qty =					127.12	
	Total		Total Qty Ltd to App Qty =					126.75	Cum

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Sl No	Description of work	Mesurement No.	L			B	D	Qty.	Unit
	Measurements Recarded on :	28-04-2023							
3	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.								
	For Culvert								
	Munibyrappa Layout Main Road	1	3.60			1.80	0.15	0.97	
	Renukamaba Temple Road 1st Cross	1	4.20			1.80	0.15	1.13	
	Renukamaba Temple Road 2nd Cross	1	4.40			1.80	0.15	1.19	
	Renukamaba Temple Road 3rd Cross	1	5.05			1.80	0.15	1.36	
	Chamundeshwari Temple Backside	1	4.80			1.80	0.15	1.30	
	Aproova Apartment Road Backside	1	4.80			1.50	0.15	1.08	
		1	6.00			1.50	0.15	1.35	
			Total Qty =					8.38	
			Total Qty Ltd to App Qty =					7.42	Cum

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Sl No	Description of work	Mesurement						Qty.	Unit
		No.	L			B	D		
	Measurements Recarded on :	29-04-2023							
4	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)								
	New Culvert								
	1st Course								
	Munibyrappa Layout Main Road	2	3.60			0.60	0.45	1.94	
	Renukamaba Temple Road 1st Cross	2	4.20			0.60	0.45	2.27	
	Renukamaba Temple Road 2nd Cross	2	4.40			0.60	0.45	2.38	
	Renukamaba Temple Road 3rd Cross	2	5.05			0.60	0.45	2.73	
	Chamundeshwari Temple Backside	2	4.80			0.60	0.45	2.59	
	Aproova Apartment Road Backside	2	4.80			0.60	0.45	2.59	
	2nd Course								
	Munibyrappa Layout Main Road	2	3.60			0.45	0.45	1.46	
	Renukamaba Temple Road 1st Cross	2	4.20			0.45	0.45	1.70	
	Renukamaba Temple Road 2nd Cross	2	4.40			0.45	0.45	1.78	
	Renukamaba Temple Road 3rd Cross	2	5.05			0.45	0.45	2.05	
	Chamundeshwari Temple Backside	2	4.80			0.45	0.45	1.94	
	Aproova Apartment Road Backside	2	4.80			0.45	0.45	1.94	
		2	6.00			0.45	0.45	2.43	
			Total Qty =					**27.80**	
			Total Qty Ltd to App Qty =					**25.99**	Cum

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Sl No	Description of work	Mesurement						Qty.	Unit
		No.	L			B	D		
	Measurements Recarded on :	29-04-2023							
5	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification.								
	Pointing								
	Munibyrappa Layout Main Road	2	3.60				0.75	5.40	
	Renukamaba Temple Road 1st Cross	2	4.20				0.75	6.30	
	Renukamaba Temple Road 2nd Cross	2	4.40				0.75	6.60	
	Renukamaba Temple Road 3rd Cross	2	5.05				0.75	7.58	
	Chamundeshwari Temple Backside	2	4.80				0.80	7.68	
	Aproova Apartment Road Backside	2	4.80				0.80	7.68	
		2	6.00				0.75	9.00	
			Total Qty =					**50.24**	
			Total Qty Ltd to App Qty =					**49.50**	Sqm

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Sl No	Description of work	Mesurement No.	L			B	D	Qty.	Unit
	Measurements Recarded on :	09.05.2023							
9	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately								
	CC Road Dismantling								
	Ramaswamappa Layout 2nd Cross	1	15.00	4.70	4.05	4.38	0.20	13.13	
		1	15.00	4.05	3.90	3.98	0.20	11.93	
		1	15.00	3.90	4.60	4.25	0.20	12.75	
		1	9.50	4.60	3.10	3.85	0.20	7.32	
	Ramaswamappa Layout 3rd Cross								
		1	15.00	4.75	3.20	3.98	0.20	11.93	
		1	15.00	3.20	3.90	3.55	0.20	10.65	
		1	15.50	3.90	4.40	4.15	0.20	12.87	
	Muninaranappa Layout # 18 kastuba opp								
		1	13.50	2.15	2.25	2.20	0.20	5.94	
		1	8.10	3.65	3.25	3.45	0.20	5.59	
		1	16.40	4.65	3.40	4.03	0.20	13.20	
		1	15.00	1.90	1.60	1.75	0.20	5.25	
		1	10.30	1.60	1.20	1.40	0.20	2.88	
	Renukamba Temple Cross Road								
		1	15.00	2.10	1.80	1.95	0.20	5.85	
		1	15.00	1.80	2.00	1.90	0.20	5.70	
		1	12.80	2.00	2.30	2.15	0.20	5.50	
		1	2.20	3.90	4.00	3.95	0.20	1.74	
			Total Qty =					**132.21**	
			Total Qty Ltd to App Qty =					**132.00**	Cum

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Sl No	Description of work	Mesurement No.	L			B	D	Qty.	Unit
	Measurements Recarded on :	18-05-2023							
10	Construction of Dry Lean Cement Concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing.								
	CC Road								
	Ramaswamappa Layout 2nd Cross	1	15.00	4.70	4.05	4.38	0.15	9.84	
		1	15.00	4.05	3.90	3.98	0.15	8.94	
		1	15.00	3.90	4.60	4.25	0.15	9.56	
		1	9.50	4.60	3.10	3.85	0.15	5.49	
	Ramaswamappa Layout 3rd Cross								
		1	15.00	4.75	3.20	3.98	0.15	8.94	
		1	15.00	3.20	3.90	3.55	0.15	7.99	
		1	15.50	3.90	4.40	4.15	0.15	9.65	
	Muninaranappa Layout # 18 kastuba opp								
		1	13.50	2.15	2.25	2.20	0.15	4.46	
		1	8.10	3.65	3.25	3.45	0.15	4.19	
		1	16.40	4.65	3.40	4.03	0.15	9.90	
		1	15.00	1.90	1.60	1.75	0.15	3.94	
		1	10.30	1.60	1.20	1.40	0.15	2.16	
	Renukamba Temple Cross Road								
		1	15.00	2.10	1.80	1.95	0.15	4.39	
		1	15.00	1.80	2.00	1.90	0.15	4.28	
		1	12.80	2.00	2.30	2.15	0.15	4.13	
		1	2.20	3.90	4.00	3.95	0.15	1.30	
			Total Qty =					99.16	
			Total Qty Ltd to App Qty =					99.00	Cum

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